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(54) Title: NOVEL INTEGRATED MICROARRAY ANALYSIS

(57) Abstract: The present invention relates to methods for identifying analyte nucleic acids present in a sample comprising nucleic acid molecules, said method comprising the steps of: (a) providing a porous substrate, said substrate comprising a plurality of micro-channels, wherein said micro-channels have immobilized thereon a target molecule capable of binding to an analyte present in said sample; wherein said channels are further provided with analyte amplification components, a reporter system; and said sample; (b) amplifying analyte nucleic acid molecules present within said sample; and (c) allowing binding to take place between an amplified analyte nucleic acid obtained in step (b), said target molecule immobilized onto the channels of said substrate and said reporter system, wherein said reporter system allows detecting whether binding has occurred between said target molecule and said analyte nucleic acid. The present invention further relates to the use of said methods as well as kits for carrying out said methods.

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